

CLAIMS

1. Method for monitoring a reciprocating compressor, comprising the following steps:

- 5     • receiving a plurality of signals corresponding to parameters relating to the operating state of the compressor,
- comparing the measured values of these parameters with critical values contained in a database,
- 10    • sending a signal according to the match between the measured values and the critical values, the signal representing an anomaly of the operating state of the compressor.

2. Method according to Claim 1, in which the said  
15 database comprises a matrix in which each row represents critical values of the said parameters relating to the operating state of the compressor associated with a specific anomaly.

3. System for monitoring a reciprocating compressor,  
20 comprising:

a unit for measuring parameters relating to the operating state of the compressor,

a processing unit for comparing the measured values of the parameters with critical values contained in a database associated with the said processing unit, and for sending a signal according to the match between the measured values and the critical values, this signal representing an anomaly of the operating state of the compressor.

4. System according to Claim 3, in which the said database comprises a matrix in which each row represents critical values of the said parameters relating to the operating state of the compressor associated with a specific anomaly.

5. System according to Claim 3, in which the said measuring unit comprises at least one sensor of at least one of the said parameters relating to the operating state of the compressor.